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Patent Plaques



JP8224210A2: FLUORESCENCE OBSERVING DEVICE

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Abstract: **Purpose:** To equalize fluorescent intensity between detected wavelength by providing an optical filter which image-picks up the fluorescent image of body cavity tissue transmitted by an image guide by separating to plural fluorescent images of specific wavelength and provided with two-dimensional permeability distribution for wavelength that belongs to at least one band area.

Constitution: Exciting light generated by the laser 31 of an exciting light light source device 3 is introduced to the light guide 21 of an endoscope 2, and the observing area of a body cavity is irradiated with the light, and generated fluorescence is made incident on a camera adaptor 5 via an image pickup optical system 27, the image guide 22 and an eyepiece 25. The light distribution characteristic of the fluorescent image is varied by making pass the optical filter 6 provided with transmissible band characteristic which absorbs a part of the fluorescence, and it is made incident on a camera 4 passing a coupling lens 51, and divided into two optical paths by mirrors 41, 42, and image-formed on CCDs 47, 48, and converted to an electrical signal, then, outputted to a fluorescent image processing part 7. The absorbance of the optical filter 6 is decided so as to equalize the blending distribution of light of respective wavelength.
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